

Title (en)
Friction drive unit

Title (de)
Friktionsantriebseinheit

Title (fr)
Transmission à friction

Publication
EP 1821000 A3 20071024 (EN)

Application
EP 06026805 A 20061222

Priority
• JP 2006042868 A 20060220
• JP 2006296296 A 20061031

Abstract (en)
[origin: EP1821000A2] A friction drive unit for moving a table along a rail comprising: a pair of drive rollers for sandwiching a guide rail therebetween, one of the pair of the drive rollers being connected to a drive source; a pair of reverse rollers attached to roller shafts of the respective drive rollers so as to transmit rotation of the one drive roller connected to the drive source to the other drive roller; and two arm portions formed integrally with or separately from one another, the pair of the drive rollers being pivoted on the arm portions, respectively, wherein the two arm portions are resiliently deformable in such directions as to approach and move away from each other and are provided so that the pair of the drive rollers produce pressing forces to the guide rail.

IPC 8 full level
F16H 19/02 (2006.01)

CPC (source: EP KR US)
F16C 29/02 (2013.01 - KR); **F16H 19/025** (2013.01 - EP US); **F16H 57/0487** (2013.01 - EP US)

Citation (search report)
• [XY] CH 561374 A5 19750430 - INVENTA AG
• [X] US 4555853 A 19851203 - LENZ JOHN O [US]
• [Y] JP S55150951 A 19801125 - MAKINO MILLING MACHINE
• [Y] JP H08105439 A 19960423 - ISEL CO LTD

Cited by
CN102830591A; CN113107973A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1821000 A2 20070822; EP 1821000 A3 20071024; JP 2007247886 A 20070927; KR 20070083172 A 20070823; TW 200732570 A 20070901; US 2007193470 A1 20070823

DOCDB simple family (application)
EP 06026805 A 20061222; JP 2006296296 A 20061031; KR 20060128535 A 20061215; TW 95144907 A 20061204; US 61807906 A 20061229